L3: Entry 45 of 47 File: DWPI Jan 18, 1994

DERWENT-ACC-NO: 1994-053920
DERWENT-WEEK: 199407

TITLE: Panaquinquecol cpds. used in carcinostatic agents - prepd. from dried roots of Panax quinquefolium by grinding, extn., fractionation and purificn. by HPLC

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PRIORITY-DATA: 1992JP-0171091 (June 29, 1992)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 06009418 A	January 18, 1994		009	A61K035/78

APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 06009418A	June 29, 1992	1992JP-0171091	

INT-CL (IPC): A61K 31/335; A61K 35/78

ABSTRACTED-PUB-NO: JP 06009418A
BASIC-ABSTRACT:

Panaquinquecol cpds. of formula (1) are new (A is H or a gp. of formula (2) or CH2=CH-CH(CH)-; B is H or alkanoyloxy; D is Me or ethylene and n = 5 or 6).

Pref., compounds Panaquinquecol 4 (A=(2), B=H, D-methyl, n=6); Panaquinquecol 5 (A=B=H, D=ethylene, n=5), and Panaquinquecol 6 (A=(3), B=acetoxy, D=methyl, n=6).

USE - (1) (pref. an extract from Panax quinquefolium) can be used in carcinostatic cpds.

In an example, dried roots of Panax quinquefolium (3.5kg) were ground and ultrasonically extracted with ethyl acetate (4L) 4 times. The extract was filtered, concentrated and chromatographed on silica gel *hexane/ethyl acetate =4/1) to give 4 fractions (F1-4). F1 was fractionated by HPLC (6 ml/min. hexane/ethyl acetate=7/1) to give F1-1 to F1-6. Active fraction F1-3 was purified by HPLC (8ml/min. hexane/ethyl acetate=5/1). Active 2 fractions were individually concentrated and crystallised under N2 aeration to give 6mg of Panaquinquecol 4 and 34mg of Panaquinquecol 5. Fe was fractionated by HPLC (3ml/min., hexane/ethyl acetate=4/1). Active fraction F3-2 was purified by HPLC (3ml/min. hexane/ethyl acetate=7/1), concentrated and crystallised to give 8mg of Panaquinquecol 6. IC50 against L1210 of Panaquinquecol 4, 5 and 6 were 0.5, 10 and 0.5 mu g/respectively.

ABSTRACTED-PUB-NO: JP 06009418A
EQUIVALENT-ABSTRACTS:

CHOSEN-DRAWING: Dwg.0/0

DERWENT-CLASS: B03
CPI-CODES: B07-A03; B14-H01;

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